

FOM Development Toolkit

TASC

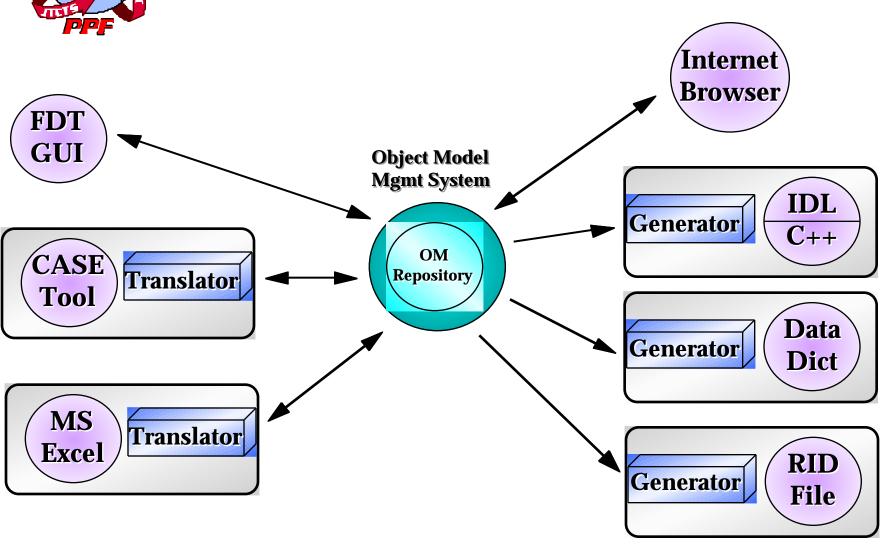
POC: Michael L. Hooks

e-mail: mlhooks@tasc.com

voice-mail: 703-358-9090, ext 6427



FDT Architecture





Object Model Management System (OMMS)

- Purpose
 - Provide access to FOM/SOM repositories
 - Manage creation, deletion, and modification of individual FOMs and SOMs

Features

- Support change propagation of modified object model elements - ensure internal consistency
- Support versioning of FOMs and SOMs
- Uses industry standard API (CORBA IDL) to provide language and platform independence



- Maximizes reuse and protects tool investment by isolating changes in OMMS implementation
- Future tools can take advantage of the services provided by the OMMS
- Distributed access maximize resources and support changing environments
- Low cost run-time licenses



JAVA Graphical User Interface

- Purpose
 - Automate FOM development process
 - Access Object Model Repository to create and version FOMs and SOMs

Features

- Build FOMs using graphical representations
- Navigate and query Object Model Repository
- FOM/SOM consistency is enforced
- Architecture neutral
 - Access using Macs, PCs, and Unix systems



- WWW Internet Access
 - Browse remote FOMs and SOMs from any platform (MAC, PC, Unix workstation) using JAVA-compliant Web browsers
 - FOM and FDT software distribution mechanism
- Independent of methodology
- Scales well with larger systems
- Start and manage other FDT Tools
 - Code Generator
 - RID Generator



IDL/C++ code generator

- Purpose
 - Using the OMMS, a graphical tool accesses the FOM and generates the necessary IDL structs
 - The tool also generates additional C++ classes to enforce consistency between the FOM specification and the simulation implementation

* RTI Initialization Data (RID) file generator

- Purpose
 - Using the OMMS, a graphical tool accesses the FOM and generates valid RID files to support RTI initialization